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(54) ADAPTIVE AND INTELLIGENT MODEM

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(58) Field of Search 706/14; 375/222

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(57) ABSTRACT

A modem to improve communication system performance that uses multiple modulation schemes comprising modulation technique and encoder combinations. As communication system performance and objectives change, different modulation schemes may be selected. Modulation schemes may also be selected upon the communication channel scattering function estimate, and the modem estimates the channel scattering function from measurements of the channel's frequency (doppler) and time (multipath) spreading characteristics.

18 Claims, 2 Drawing Sheets

